What is claimed is:

- 1. An isolated protein having an amino acid sequence comprising a sequence selected from the group consisting of SEQ ID NOs: 1-69 and 139-181.
- 2. The isolated protein of claim 1, wherein said protein is an antigenbinding protein.
- 3. The isolated protein of claim 2, wherein said antigen is human Rh(D) protein.
- 4. The isolated protein of claim 3, wherein said protein has an amino acid sequence selected from the group consisting of SEQ ID NOs: 1-69 and 139-181.
- 5. The isolated protein of claim 3, wherein said antigen-binding protein is an antibody.
- 6. The isolated protein of claim 5, wherein said antibody comprises a heavy chain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 1-28 and 139-153.
- 7. The isolated protein of claim 5, wherein said antibody comprises a light chain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 29-69 and 154-181.
- 8. The isolated protein of claim 5, wherein said antibody comprises a heavy chain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 1-28 and 139-153 and a light chain having an amino acid sequence selected from the group consisting of SEQ ID NOs: 29-69 and 154-181.
- 9. The isolated protein of claim 3, wherein said binding protein is an antibody fusion protein.
- 10. The isolated protein of claim 1, wherein said protein is substantially purified.
- 11. An isolated DNA encoding a protein having an amino acid sequence comprising a sequence selected from the group consisting of SEQ ID NOs: 1-69 and 139-181.

- 12. The isolated DNA of claim 10, having a nucleotide sequence selected from the group consisting of SEQ ID NOs: 70-138 and 182-224.
 - 13. The isolated DNA of claim 12, being substantially purified.
- 14. An isolated DNA encoding a protein obtained by generating a synthetic DNA library in a virus vector expressing said protein;

adding a magnetic label to cells expressing said antigen-bearing moiety; incubating virus expressing said protein with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigen-bearing moiety to form a mixture, wherein said virus binds to said magnetically labeled cells;

isolating virus bound cells from said mixture and obtaining DNA encoding said protein therefrom.

- 15. The isolated DNA of claim 14, having a nucleotide sequence selected from the group consisting of SEQ ID NOs: 70-138 and 182-224.
- 16. A substantially pure protein obtained by generating a synthetic DNA library in a virus vector expressing said protein;

adding a magnetic label to cells expressing said antigen-bearing moiety; incubating virus expressing said protein with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigen-bearing moiety to form a mixture, wherein said virus binds to said magnetically labeled cells;

isolating virus bound cells from said mixture and isolating said protein therefrom.

- 17. The substantially pure protein of claim 16, having an amino acid sequence selected from the group consisting of SEQ ID NOs: 1-69 and 139-181.
- 18. A substantially pure preparation of a protein obtained by expressing said protein from DNA encoding said protein, wherein said DNA is obtained by

generating a synthetic DNA library in a virus vector expressing said protein;

adding a magnetic label to cells expressing said antigen-bearing moiety; incubating virus expressing said protein with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigen-bearing moiety to form a mixture, wherein said virus binds to said magnetically labeled cells;

isolating virus bound cells from said mixture and obtaining DNA encoding said protein therefrom.

- 19. The substantially pure protein of claim 18, having an amino acid sequence selected from the group consisting of SEQ ID NOs: 1-69 and 139-181.
- 20. A method of isolating a DNA encoding a multi-subunit protein which binds to an antigen-bearing moiety, said method comprising

generating a phage display library comprising a plurality of virus vectors, wherein a first of said virus vectors comprises a first heterologous DNA encoding a subunit of said protein and expresses said subunit on the surface thereof, and wherein a second of said virus vectors comprises a second heterologous DNA encoding a different subunit of said protein and expresses said different subunit on the surface thereof;

adding a magnetic label to cells bearing said antigen-bearing moiety on their surface;

incubating said phage display library with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigen-bearing moiety to form a mixture, whereby said first and second virus vectors bind to said magnetically labeled cells;

isolating magnetically labeled cells from said mixture, whereby said first and second virus vectors are isolated from said mixture;

obtaining said first heterologous DNA from said first virus vector;

ligating at least the portion of said first heterologous DNA encoding said subunit and at least the portion of said second heterologous DNA encoding said different subunit to form a hybrid heterologous DNA;

generating a hybrid virus vector comprising said hybrid heterologous DNA and expressing said subunit and said different subunit of said protein on the surface thereof;

adding a magnetic label to cells bearing said antigen-bearing moiety on their surface;

incubating said hybrid virus vector with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigen-bearing moiety to form a mixture, whereby said hybrid virus vector binds to said magnetically labeled cells;

isolating magnetically labeled cells from said mixture, whereby said hybrid virus vector is isolated from said mixture; and

obtaining DNA encoding said protein from said isolated virus vector, whereby said DNA is isolated.

21. A method of isolating a multi-subunit protein which binds to an antigen-bearing moiety, said method comprising

generating a phage display library comprising a plurality of virus vectors, wherein a first of said virus vectors comprises a first heterologous DNA encoding a subunit of said protein and expresses said subunit on the surface thereof, and wherein a second of said virus vectors comprises a second heterologous DNA encoding a different subunit of said protein and expresses said different subunit on the surface thereof;

adding a magnetic label to cells bearing said antigen-bearing moiety on their surface;

incubating said phage display library with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said

antigen-bearing moiety to form a mixture, whereby said first and second virus vectors bind to said magnetically labeled cells;

isolating magnetically labeled cells from said mixture, whereby said first and second virus vectors are isolated from said mixture;

obtaining said first heterologous DNA from said first virus vector;

ligating at least the portion of said first heterologous DNA encoding said subunit and at least the portion of said second heterologous DNA encoding said different subunit to form a hybrid heterologous DNA;

generating a hybrid virus vector comprising said hybrid heterologous DNA and expressing said subunit and said different subunit of said protein on the surface thereof;

adding a magnetic label to cells bearing said antigen-bearing moiety on their surface:

incubating said hybrid virus vector with said magnetically labeled cells in the presence of an excess of non-labeled cells which do not express said antigenbearing moiety to form a mixture, whereby said hybrid virus vector binds to said magnetically labeled cells;

isolating magnetically labeled cells from said mixture, whereby said hybrid virus vector is isolated from said mixture; and

isolating said protein from said isolated virus vector, whereby said protein is isolated.